



RVSS Upgrade Tier 1 Decision Brief

Date: October 14, 2015



Purpose and Desired End State

Purpose:

• Obtain the decision for execution of the recommended Tier 1 (0-2 years)

Courses of Action (COAs) from Chief and Chief for both Rio Grande

Valley Sector (RGV) and Laredo Sector (LRT)

The Desired End State:

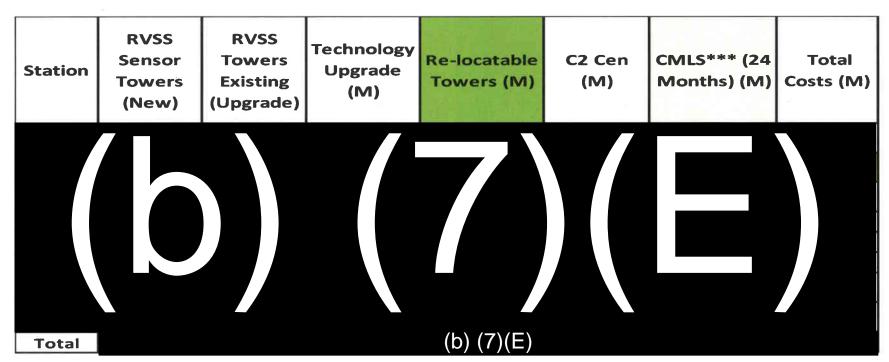
- RGV: Technology deployed in priority AOR(s) earlier than current schedule
 - Move first RGV deployment up six to nine months
- LRT: Improved capability deployed within two years:
 - Legacy LRT RVSS performance and reliability improved
 - Mitigate urgent and compelling LRT surveillance gaps in priority areas
 - Increased surveillance of key terrain
 - Improved situational awareness in key terrain
 - Communications connectivity and reliability increased

CGAP Requirements and Desired Tier 1 Capability



RGV COA #1

- Procure re-locatable towers for selected AOR(s) phased deployment
 - Utilize existing GDOS technology deployment CLIN for selected AOR(s)
 - Complete C2 and station tower modifications for priority AOR(s) as planned
 - Suggest AOR first (in GREEN below) High priority AOR



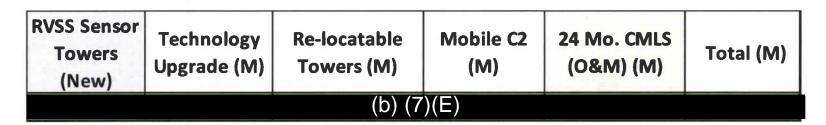
Allows evaluation of re-locatable towers (3-4 months) once deployed

First Deployment in RGV 6 to 9 Months Earlier



RGV COA #2

- Provide small pilot with fully mobile system for one AOR
 - Up to (b) (7)(E) re-locatable towers and also a fully mobile C2 for selected AOR
 - Mobile C2 less permanent and has potential as a stop-gap capability
 - Inexpensive option as long term C2 infrastructure is completed
 - Can be deployed where needed easily moved (b) (7)(E)
 - Use GDOS technology deployment CLIN for selected AOR
 - Modifying GDOS contract CLIN will be required
 - Will cause additional cost and schedule risk
 - Can be deployed in ~12-18 months (more detail pending)
 - Allows evaluation of re-locatable towers (3-4 months) once deployed



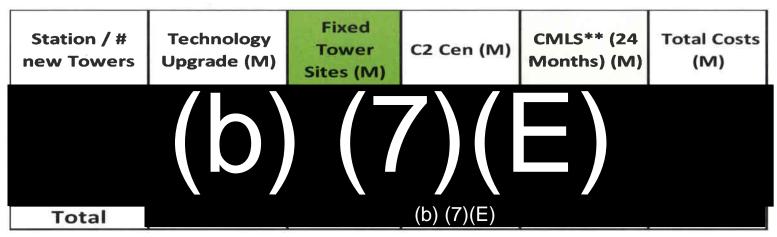
Recommended COA: Provides Early Win in RGV



RGV COA #3

Stay with current plan but prioritize AORs based on affordability:

- Assumes no FY17 D&D funding limit between \$50-\$60M D&D
- For selected AOR(s) subject to funding availability:
 - Assume the use of fixed tower construction for all sites.
 - Complete C2 renovation(s) and station tower(s) as planned
 - Complete field tower construction for selected AOR(s), then
 - Exercise existing GDOS technology deployment CLIN(s)



* Top 3 Priority AORs

** O&M Funding

- Risk: Assumes a deployment delay in remaining RGV AORs
 - Still dependent on environmental and real estate activities

Provides Deployment for up to 2 Priority AORs



LRT COA #1

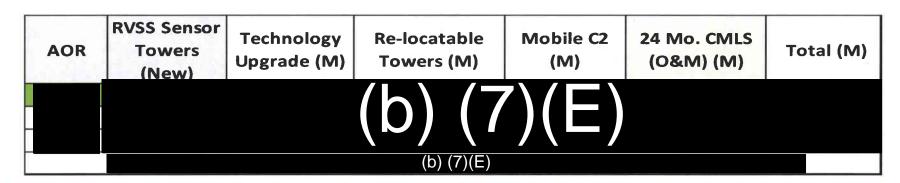
- Leverage FAA IAA to improve legacy RVSS performance and reliability:
 - FAA has provided an assessment of legacy LRT RVSS (i.e. similar to (b) (7)(E)
 - Leverage \$5M currently on the FAA IAA
- ROM Cost
 - Repair and replace (b) (7)(E) equipment where necessary
 - Cost up to \$4.5M (based on (b) (7)(E) with (b) (7)(E) in LRT)
 - Expected to be covered from approved \$5M UFR
- ROM Schedule
 - 9-12 months from authority to proceed

Increased Performance and Availability of Legacy System



LRT COA #2

- In addition to COA #1: Use re-locatable towers for additional sites
- Procure and deploy pilot re-locatable tower system in one AOR
 - Assumes one fully mobile C2
 - Tower site locations based on August LRT workshop
 - Recommend as first AOR highest priority (in GREEN below)
- Use GDOS for technology solution (sensor suites/C2 equipment/backhaul)
 - Will require J&A and contract modification creates schedule risk to complete
- Possible to deploy within two years
 - Evaluate re-locatable tower performance once deployed (3-4 months)



Recommended COA: Provides Early Win in LRT



Conclusion/Approval

- RGV COA #2 Provide small pilot with fully mobile system for one AOR
- LRT COA #2 Improve legacy system and,
 - Deploy pilot re-locatable tower system in one AOR

Approve

Disapprove

Requires More Discussion

(b) (6), (b) (7)(C)

10/13/15

16-13-15